

# Ethernet Extension Experts

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## Enable-IT 868 Single Pair PoE+ & Ethernet Extender User Manual



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## ABOUT THIS GUIDE

This guide provides all the information needed to install and use the Enable-IT 868 PoE+ & Extended Ethernet Kit. This guide is intended for use by technicians who are responsible for installing and setting up network equipment. Consequently, it is assumed that the installer has a basic working knowledge of LANs (Local Area Networks) and voice telecom wiring.

*If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.*

Most user guides and release notes are available in Adobe Acrobat

Reader Portable Document Format (PDF) or HTML on the Enable-IT World Wide Web site: [http://www.ethernetextender.com/manuals/868\\_Manual.pdf](http://www.ethernetextender.com/manuals/868_Manual.pdf)

# INTRODUCING THE 868 PoE+ & EXTENDED ETHERNET KIT

Congratulations on purchasing the Enable-IT 868 PoE+ & Extended Ethernet Kit — the simplest method to install your PoE+ IP Security camera or PoE+ Wireless Access Point using Ethernet or telephone wiring. This is the world's first solution to deliver Voice, Ethernet Data and Power over Ethernet (PoE+) in a combined package that exceeds the IEEE distance limitations for all Ethernet equipment.

***WARNING: DO NOT use LAN1/2 PoE+ port on the CPE end for non-PoE+ equipment as it may damage any non-PoE+ equipment. Use the LAN ports (3-4) on the CPE for non-PoE+ equipment.***

This chapter contains introductory information about how it can be used in your network and covers the following topics:

- About the 868 PoE+ & Extended Ethernet Kit
- Key Benefits
- Summary of Features
- Typical Use Applications

## About the 868 PoE+ & Extended Ethernet Kit

The 868 PoE+ & Extended Ethernet Kit provides a complete all in one solution and lower cost alternative for installing a PoE+ device beyond IEEE Ethernet cabling distance limitations or for installing a remote LAN requiring no power at the remote end. Traditional methods require installation of costly fiber (that can't carry power) or a series of hubs/repeaters and the use of voice and PoE+ equipment combined.

The preferred network access for these PoE+ devices is a dedicated Ethernet line, however Ethernet over twisted pair wiring has its distance limitations of just 328 ft. In order to drive Ethernet signal further, one would have to add repeaters to each segment of 328ft twisted pair cabling; this is often insufficient and too costly in multi-story buildings. Fortunately the Enable-IT 868 Series Extended Ethernet can push the reach of Ethernet to more than (10.7) ten times the typical Ethernet distance. 2,500ft/762m distance if using the PoE+ power to drive up to a 24v PoE+ device or 3,500ft/1,067m distance if using the PoE+ to remotely power the remote 868 CPE device using LAN ports 2-4 output for Ethernet data.

The 868 enables the simple installation of a PoE+ device up to 2,500ft (762m) From your LAN and Power Source. – This is ideal for installing PoE+ IP Security cameras or PoE+ WiFi Access Points or for a standalone remote self powered LAN up to 3,500ft (1,067m).

***WARNING: DO NOT use LAN1/2 PoE+ port on the CPE end for non-PoE+ equipment as it may damage any non-PoE+ equipment. Use the LAN ports (3-4) on the CPE for non-PoE+ equipment.***

The Enable-IT 868 Extended Ethernet has been tested to provide full duplex transport up to 100MB/s over CAT3, CAT5e and higher cabling.

Unit Model	Wiring	Min Data Rate	Max. Distance
868	CAT3, CAT5e or better	100Mbps FD*	3,500ft / 1,067m

\* Actual data rate will vary on the quality of the copper wire, twisted pair and environmental factors

## Key Benefits

The following list identifies the 868 PoE+ & Extended Ethernet Kit key benefits.

- Quad switched LAN RJ-45 10/100 Ethernet ports on each end for expansion without adding a hub or switch on each end.
- The Enable-IT 868 PoE+ & Extended Ethernet Kit requires No Power (CPE remote end), No Firmware, No Maintenance
- Broadband technology that delivers in-building PoE+ and Ethernet access over existing Category 3 , Category 5e wiring or better up to 3,500ft or 1,067m.
- Provides one scalable infrastructure for Internet access, dual POTS, VoIP, video, Power over Ethernet (PoE+) and virtual private networking.
- Low profile box Ethernet data and PoE+ all in a single RJ-45 Ethernet jack (Interlink port).

## Summary of Features

The Enable-868 PoE+ & Extended Ethernet Kit has the following hardware features:

- PoE+ and Extended Ethernet line over existing CAT 3 up to CAT5e / CAT6 wiring
- Uses RJ-45 Interlink port for transport (PoE+ and 100Mbps data)
- Rapid Telco style installation – no programming required
- Supports digital VoD
- Drives Ethernet 100 Mbps full-duplex service delivery with PoE+ up to 3,500ft or 1,067m
- Network Equipment independence – Transparent to protocols/applications/MAC
- Cisco PoE+ single line injector support built in.
- Transparent to single line 802.3af PoE+ devices.

### Specifications:

Power Indicator  
100Mbps Link status/Activity  
VDSL2 Link Status/Activity

### Dimensions:

Height: 1.5" (38mm)  
Depth: 3.75" (95mm)  
Width: 5.75" (146mm)

### Interfaces

(1) 5v 2A DC Power Adapter 2.1mm  
(1) RJ-45 Not used  
(4) RJ-45 100MB LAN Auto negotiate  
(1) RJ-45 Interlink Port

### Functionality:

Data Rates 100Mbps Full Duplex  
Full Duplex/Half Duplex status/Collisions  
Protocol independent

### 868 Interlink port pins:

Pins 1 & 2 –Data PoE+ power  
Pins 3 & 6 – N/A  
Pins 4 & 5 – N/A  
Pins 7 & 8 – N/A

### Environment

Operating temp: -49°F to 168°F (-45°to 76°C)  
Storage temp: -49°F to 168°F (-45°to 76°C)  
Humidity 5% to 95%, non-condensing

## Multi Use Applications

Enable-IT 868 PoE+ & Extended Ethernet kit is a versatile multipurpose solution and you have the choice are only installed for the use of PoE+ equipment such as PoE+ IP Cameras and PoE+ WiFi Access Points. Non-PoE+ equipment may be damaged if used and the Enable-IT 868 kit should be used to bridge non-PoE+ equipment.

The 868 PoE+ & Extended Ethernet Kit allows a standard Ethernet segment injected with 48v PoE+ to be deployed quickly over exiting 1 pair Telco Copper Wiring up to 3,500ft / 1.067m to a remote unpowered location.

Installers have the convenience of a 100Mbps LAN Ethernet unit for peace of mind connectivity and no device maintenance. Rapid installation allows for minimal interruption and the Broadband technology allows for investment protection up to 10 -15 years with no firmware or replacement issues. Bandwidth can be scaled according to the Broadband Access Provider needs. The 868 PoE+ & Extended Ethernet Kit is a passive device so interruption of Internet service does not affect POTS services. Carriers and Access Providers can come and go, but the 868 PoE+ & Extended Ethernet Kit technologies continue to provide lasting value such as the other utilities like water, gas and electricity.

The Enable-868 PoE+ & Extended Ethernet Kit is suited for the following key environments:

- **Commercial Buildings (Multi-Tenant Units)**
- **Business Parks (Multi-Tenant Units)**
- **Apartments (Multi-Residential Units)**
- **Hotels (Multi-Hospitality Units)**
- **Business Suites (Multi-Hospitality Units)**
- **School Campuses (University, K-12)**
- **College Housing (Multi-Residential Units)**
- **Mining Operations – Quarries, Mine shafts**
- **Nautical Infrastructure – Cruise ships, Marinas, dive operations, subs**
- **Video Surveillance/Security**
- **WiFi Deployment – ISP's, RV Parks, Construction sites**
- **Manufacturing – Foundries, pharmaceutical, aerospace, automotive, petroleum, concrete plants, etc.**
- **Retail POS – Department stores, Bars, restaurants, retail spaces**
- **Government – Naval ships, FEMA, Housing, USGS, National Parks, Forestry, Research stations, NASA, utilities, etc.**
- **Education – outdoor camps, college campuses**
- **Healthcare – Hospitals, elder care, outpatient facilities**
- **Entertainment – Movie theaters, home entertainment, fairs, outdoor venues**



# INSTALLING THE 868 PoE+ & EXTENDED ETHERNET KIT

The Enable-IT 868 PoE+ & Extended Ethernet Kit have a distance restriction of 3,500ft or 1,067m over 1-pair of Category 3 up to Category 5e / CAT6 wiring from your LAN and power source to the remote PoE+ device. Therefore quick, simple site surveys and installation planning are highly recommended – This is ideal for installing PoE+ IP Security cameras or PoE+ WiFi Access Points.

This chapter describes the recommended installation process for the Enable-IT 868 PoE+ & Extended Ethernet Kit. It covers the following topics:

- Site Plan – Installation Design Considerations
- Unpacking the Enable-IT 868 PoE+ & Extended Ethernet Kit
- Perform an out of the box Test
- Performing the On-Site Installation

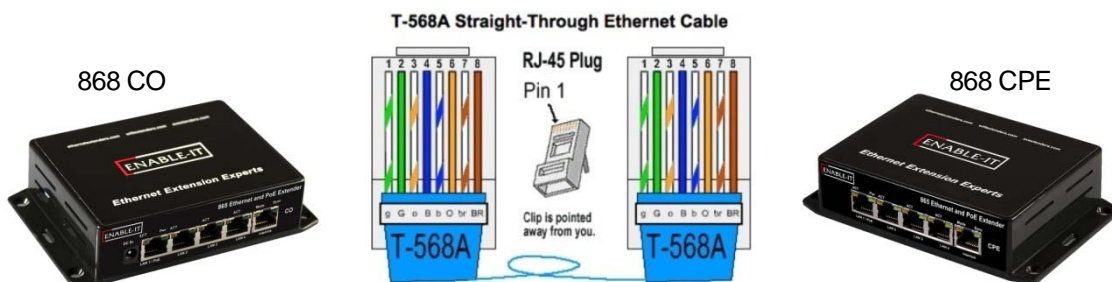
## Site Plan - Installation Design Considerations

The planning process should involve a site walkthrough and discovery survey. Electrical Cable measurement tools are the most reliable method to determine the longest run of hidden wiring. Estimate the best locations to position the Broadband Concentrators to adequately reach desired connectivity on each floor. Document your findings to use in designing a network topology to support the Ethernet Switches and backbone connectivity. Key points to remember in the Site Survey.

- Total distance limitation of 3,500ft / 1.0672m from end to end. - 2,500ft/762m distance if using the PoE+ power for a PoE+ device.
- 1-pair Cat5e .30 Gage or better cabling is required for the 868 Interlink transmission.
- Cisco PoE+ single line injector support built in. Not compatible with any PoE+ switches as the PoE+ switches are not smart enough to understand Extender Ethernet timing mechanisms and fail to set correct output voltage and will subsequently disable the PoE+ switch port.
- Transparent to single line 802.3af/802.3at PoE+ injectors and devices.

For CAT3 wiring (1-pair/2 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2) straight through. This will deliver Ethernet Data and PoE+.

For CAT5e or better wiring (1-pair/2 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2) straight through. This will deliver Ethernet Data and PoE+.





## Unpacking the Enable-IT 868 PoE+ & Extended Ethernet Kit

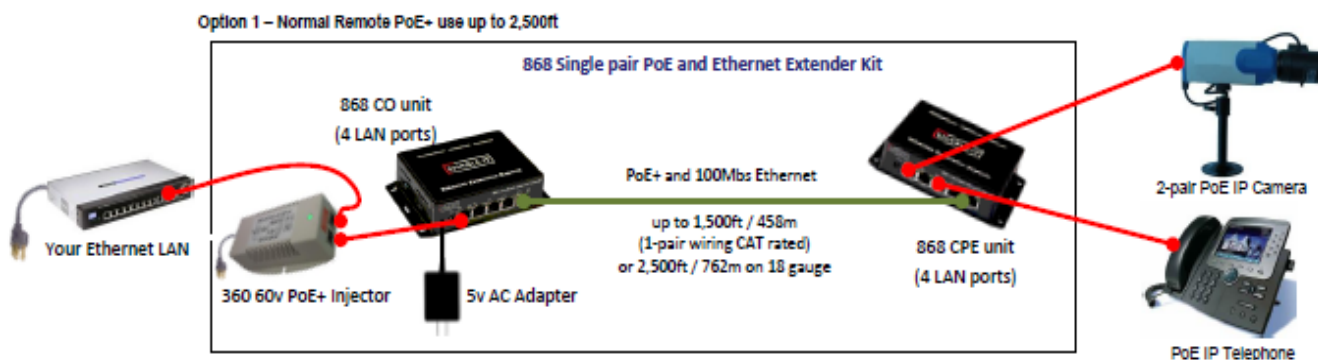
Carefully remove the Enable-IT 868 PoE+ & Extended Ethernet Kit all packing materials from the box. Verify that the items listed below are present. Make sure that the equipment supplied matches what you ordered. If any items are missing or damaged, please contact Enable-IT or your distributor for assistance.

- (2) The Enable-IT 868 PoE+ & Extended Ethernet Units (CO & CPE)
  - 5v AC/DC Power adapter for 868 CO
  - 10' LAN patch cables
  - Enable-IT 360 60W -56v High PoE+ Injector
- (1) Enable-IT 868 PoE+ & Extended Ethernet Kit User Manual (this manual)
- (1) Enable-IT 360 PoE+ Injector User Manual

### Perform an out of the box Test

**We highly recommend a quick test to ensure the working order of you 868 units. To do this, please use one of the Ethernet patch cords provided and attach to the 868 Interlink port of each 868 unit. Using the 5v power adapter, power up the 868 CO Unit and attach the 360 PoE+ Injector (P+Data Out port) to the 868 CO LAN1/PoE+ port. After a few seconds you should see a solid Green Interlink Sync LED on each unit to confirm a link is established. The Green Interlink Sync LED will pulse rapidly as it detects traffic. This confirms basic proper operation of the units. Next for a more detailed test and to confirm your PoE+ LAN Equipment works with the 868, connect your Ethernet LAN and PoE+ remote device to the 868 LAN ports and test connectivity.**

***WARNING: DO NOT use LAN1/2 PoE+ port on the CPE end for non-PoE+ equipment as it may damage any non-PoE+ equipment. Use the LAN 3-4 ports on the CPE for non-PoE+ equipment.***



LED indicators will provide visual operational status of the 868 units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.  
Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that unit is receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN  
– Blinking indicates the presence of local LAN traffic

**Next for a more detailed test and to confirm your PoE+ Equipment works with the 868, connect your PoE+ device to the 868 CPE LAN1/PoE+ port and your LAN to the 360 PoE+ Injector Data IN port. For use with a Cisco PoE+ device such as Aironet WiFi AP – Use the provided Cisco PoE+ patch cord or build one using it as a guide.**

## Performing the On-Site Installation

After removing the Enable-IT 868 PoE+ & Extended Ethernet Kit from the box and performing the out of the box testing all that remains to install the unit on-site is to mount the unit, build the interconnect wiring, add voice lines if needed and attach the LAN device cabling with the provided Ethernet Patch cords.

### ❶ Mounting the Enable-IT 868 PoE+ & Extended Ethernet Units

The Enable-IT 868 PoE+ & Extended Ethernet Kit is designed for quick wall mounting. Choose a location to mount each of the Enable-IT 868's where the maximum distance does not exceed 3,500ft or 1,067m total between devices to be connected. When mounting the Enable-IT 868 PoE+ & Extended Ethernet Kit it is recommended that you use the appropriate anchors for your mounting surface. If mounting on plywood use wood screws; if mounting onto drywall or sheetrock, use plastic drywall anchors or Velcro can also be used as the units are very lightweight.

### ❷ Building the 868 Interlink wiring

The most important aspect of the install is the correct wiring of the Interlink cabling. For CAT3 wiring (1-pair/2 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2) straight through. This will deliver Ethernet Data and PoE+.

For CAT5e or better wiring (1-pair/2 wires) you will need to crimp a RJ-45 Male Head to each end of the contiguous wire run and using the following pins(1,2) straight through. This will deliver Ethernet Data and PoE+.

### ❸ Attaching cabling and devices to the Enable-IT 868 Extended Ethernet Kit.

Attach your remote PoE+ device to the 868 CPE unit LAN1/PoE+ port with Ethernet patch cord provided. Attach your local LAN to the 360 PoE+ injector Data IN port. Attach the power adapter to the 868 CO unit. Attach the 360 PoE+ injector to the 868 CO LAN1/PoE+ port with Ethernet patch cord provided. **Absolutely the last step is to apply power to the 360 PoE+ injector with the country power cord provided. Your equipment should now be powered up and functioning properly.**

The LED indicators will provide visual operational status of the 868 units.

- Sync** - Slow to fast flicker on power up – indicates negotiation of a link.  
Solid Green LED indicates link established and rapid pulse is traffic.
- Pwr** - Solid Green LED indicates that unit is receiving 5v power.
- Mode** - Solid Yellow LED on CPE unit only – No LED lit on CO
- ACT** - Yellow LEDs – Lit solid indicates the presence of local LAN  
– Blinking indicates the presence of local LAN traffic

### ❹ For troubleshooting, first examine the backbone wiring pair and make sure you have solid connections. The Interlink Sync LED will be lit on each 868 unit to show proper connection and pairing. If the Interlink Sync LED Link is flashing – (Not pulsing)

- 1) Make sure your wiring is straight through and not connected to any Telco punch down blocks or a few as possible – they add interference. If your wiring is spliced, use Telco butt clips or gel filled caps to bridge wire into a solid connection. A flashing Interlink Sync LED indicated the units are trying to connect to each other and are looking to synchronize frequencies.

- 2) Check for a firm connection of the RJ-45 connections in each 868 unit, check any splice points in the Interlink wiring and that the 5v power adapter is applied to the 868 CO and the 360 PoE+ injector is powered up.
- 3) You can always perform another out of the box test to prove out the equipment and then focus on your interlink wiring.

### Performance Settings

A DIP Switch is provided on the left side of each unit for setting line performance attributes.

If the Interlink cabling is less than 1,500ft / 1,067m - Set DIP Switch 3 up to the OFF position. This optimizes faster symmetrical throughput.

If the Interlink cabling is over 1,500ft 1,067m - the DIP switch 3 must be down (set to ON) position for the unit to work properly.



Default DIP settings  
 868 CPE – All down set in the ON position  
 868 CO – DIP position 1 up (OFF)  
 DIPs 2-4 down (ON)

### Technical Support

Enable-IT OEM Technical Support is available directly to customers and distributors. All support requests are processed through the online support portal. This allows us to provide assigned support ticket numbers in order to bring closure to any technical issues.

#### Online Technical Services

The Enable-IT Support Portal is available 24/7. No password or user account is necessary. Please use this support website as your first source for help as it contains an on line knowledge base of articles, documentation, FAQ's and other problem-solving resources. This web-based support resource provides the quickest solution to the most common technical support issues.

<http://support.enableit.com>

### Returning Products for Warranty Repair

Enable-IT, Inc. warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. **Electrical damage is not an item that is covered under this warranty or extended warranties.**

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Please ship Authorized RMAs to:

Enable-IT Processing Facility  
 16600 Harbor Blvd, Ste I  
 Fountain Valley, CA 92708

### Returning Products for Refund

45-Day refund applies to single kit Ethernet Extenders only and is subject to a 15% Restocking Fee. Shipments without valid / authorized RMA number or sent to our corporate Las Vegas Address can be refused and or billed for additional shipping.

# ENABLE-IT LIMITED WARRANTY

Enable-IT warrants the Enable-IT 868 PoE+ & Extended Ethernet Kit solely pursuant to the following terms and conditions.

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a. Express Warranty Enable-IT warrants to the original purchaser of the Product ("you" or the "End User") that, for the four (4) year period commencing on the date the Product was purchased (the "Warranty Period"), the Product will be substantially free from defects in materials and workmanship under normal use and conditions. This warranty does not apply to Products which are resold as used, repaired or reconditioned or consumables (such as batteries) supplied with the Product. **Electrical damage is not an item that is covered under this warranty or extended warranties.** Enable-IT does not make any warranty with respect to any third party product, software or accessory supplied with or used in connection with the Product and such third party products, software and accessories, if any, are provided "AS IS." Warranty claims related to such third party products, software and accessories must be made to the applicable third party manufacturer.

b. Remedies for Breach of Warranty In the event of a breach of the foregoing warranty, Enable-IT will, in its sole discretion and at its cost and subject to the terms of the following paragraph, repair the non-conforming Product, replace the non-conforming Product with a new or reconditioned Product or refund of the purchase price for the Product. Any new or reconditioned Product provided pursuant to this paragraph is warranted as provided herein for the remainder of the original Warranty Period. THE REMEDY SET FORTH IN THIS PARAGRAPH SHALL BE THE END USER'S SOLE AND EXCLUSIVE REMEDY FOR BREACH OF THE FOREGOING WARRANTY.

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